JETP Letters 2010 vol.91 N1, pages 21-23

On the distribution coefficient of Ce3+ ions in LiF-LuF--YF3 solid-solution crystals

Nizamutdinov A., Semashko V., Naumov A., Efimov V., Korableva S., Marisov M.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The optimum ratio of the numbers of the Y3+ and Lu3+ ions in LiF-LuF3-YF3 solid solutions at which the distribution (introduction) coefficient of Ce3+ ions is three to five times larger than that in LiYF4 and LiLuF4 crystals has been determined by the EPR and optical spectroscopy methods. © Pleiades Publishing, Inc., 2010.

http://dx.doi.org/10.1134/S0021364010010054